

## **ABBREVIATIONS AND ACRONYMS**

AD	Application Domain
ADI	Adaptive Displays & Interaction
AFDS	Adaptive Flight Deck Systems
AFRL	Air Force Research Laboratory
AIAA	American Institute of Aeronautics & Astronautics
AIIM	Adaptive Intelligent Information Management
AIS	Aeronautical Information Services
ANP	Actual Navigation Performance
AOPA	Aircraft Owners and Pilots Association
AOL	Airspace Operations Laboratory
ARC	Ames Research Center
ARIES	Airborne Research Integrated and Experiments System
ARINC	ARINC, Inc.
ARMD	Aeronautics Research Mission Directorate
ASAFE	Aviation Safety Analysis and Functional Evaluation
ASMM	Aviation Safety Monitoring and Modeling
ASP	Airspace Systems Program
ATC	Air Traffic Control
ATM	Air Traffic Management
ATOL	Air Traffic Operations Laboratory
AvSP	Aviation Safety Program
CAASD	Center for Advanced Aviation System Development
CAMA	Crew Assistant Military Aircraft
CAST	Commercial Aviation Safety Team
CAVE	Cave Automated Virtual Environment
CDU	Control Display Unit
CMF	Cockpit Motion Facility
CNSL	Communication Navigation Surveillance Laboratory
CONOPS	Concept of Operations
CVI	Crew Vehicle Interface
CVSRF	Crew Vehicle Systems Research Facility
DARPA	Defense Advanced Research Projects Agency
DAT	Decision Associate Technology
DFRC	Dryden Flight Research Center
DFW	Dallas-Ft. Worth International Airport
DoD	Department of Defense
DPM	Deputy Project Manager
EFB	Electronic Flight Bag
EHD	External Hazard Detection
EHM	External Hazard Monitor
EVO	Equivalent Visual Operations

EVS	Enhanced Vision System
FAA	Federal Aviation Administration
FAP	Fundamental Aeronautics Program
FDDRL	Flight Deck Display Research Laboratory
FFRDC	Federally Funded Research and Development Center
FLIR	Forward-Looking Infra Red
FMS	Flight Management System
fNIRS	functional Near Infra-Red Spectroscopy
FTE	Full-Time Equivalent
FY	Fiscal Year
GA	General Aviation
GFD	Generic Flight Deck
GN&C	Guidance, Navigation & Control
GRC	Glenn Research Center
HAVS	Highly Autonomous Vehicle Simulator
HCI	Human-Computer Interaction
HCSS	High Confidence Software and Systems
HFACS	Human Factors Classification System
HIDS	High Integrity Data Systems
HSI	Human System Integration
HSR	High Speed Research
ICAO	International Civil Aviation Organization
ICP	Internal Call for Proposals
IFD	Integrated Flight Deck simulator
IHDM	Internal Hazard Detection & Mitigation
IIFDT	Integrated Intelligent Flight Deck Technologies
IMC	Instrument Meteorological Conditions
IPT	Integrated Product Team
IR	Infrared
IRAC	Integrated Resilient Aircraft Control
ISO	International Organization for Standardization
IVHM	Integrated Vehicle Health Management
JPDO	Joint Project Development Office
JSRA	Joint-Sponsored Research Agreement
LaRC	Langley Research Center
LiDAR	Light Detection and Ranging
LVLASO	Low Visibility Landing and Surface Operations
MS	Milestone(s)
NAS	National Airspace System (current instantiation)
NASA	National Aeronautics & Space Administration
NATO	North Atlantic Treaty Organization
NCAT	Non-Cooperative Airborne Traffic
NGATS	Next Generation Air Transport System

NRA	NASA Research Announcement
NRC	National Research Council
NIA	National Institute of Aerospace
NTSB	National Transportation Safety Board
OCAPI	Operator Characteristics And Performance Investigations (Laboratory)
OGA	Other Government Agencies
PI	Principal Investigator
PIRT	Phenomena Identification Ranking Table
PM	Project Manager
POC	Point(s) of Contact
RAHS	Robust Automation-Human Systems
RCI	Rockwell/Collins Incorporated
RF	Radio Frequency
RFD	Research Flight Deck (Simulator)
RFI	Request For Information
RIPS	Runway Incursion Prevention Systems
RTCA	RTCA, Incorporated (aka Requirements and Technical Concepts for Aviation)
SA	Situational Awareness
SAE	Society of Automotive Engineers
SARP	Standards and Recommended Practices
SBIR	Small Business Innovation Research
SDA	System Design & Analysis
SVS	Synthetic Vision Systems
TAWS	Terrain Avoidance Warning System
TBD	To Be Determined
TCAS	Traffic Collision Avoidance System
TFOAM	Tailored Flexible Operator-Automatic Management
TGIR	Turning Goals Into Reality
TIM	Technical Interchange Meeting
URET	User Request Evaluation Tool
VASIP	Voluntary Aviation Safety Information-Sharing Program
VAST-RT	Virtual Airspace Simulation Technologies - Real Time
VISTAS-3	Virtual Imaging Simulator for Transport Aircraft Systems, 3rd Generation
VMC	Visual Meteorological Conditions
VR	Virtual Reality
WBS	Work Breakdown Structure
WXR	Weather Radar
WYE	Work Year Equivalent
XVS	eXternal Vision System